

## CNG3B: A NOVEL CYCLIC NUCLEOTIDE-GATED CATION CHANNEL

### ABSTRACT OF THE DISCLOSURE

The invention provides isolated nucleic acid and amino acid sequences of  
5 CNG3B, antibodies to CNG3B, methods of detecting CNG3B, and methods of screening  
for modulators of cyclic nucleotide-gated ion channels using biologically active CNG3B.  
The invention further provides, in a computer system, a method of screening for  
mutations of human CNG3B genes as well as a method for identifying a three-  
dimensional structure of human CNG3B polypeptides.

10

SF 1223147 v1